Refine Search

Search Results -

Terms	Documents
L3 and (poi or (point-of-interest) or ("point of interest"))	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L9

[Refine Search]

[Recall Text]   [Clear]   [Interrupt]

Search History

DATE: Tuesday, August 10, 2004   Printable Copy   Create Case

Set Name Query	Hit Count	Set Name
side by side		result set
DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
L9 L3 and (poi or (point-of-interest) or ("point of interest"))	0	L9
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
L8 L4 and poi	1	L8
L7 L4 and interest$	1	L7
L6 L4 and l2	2	L6
L5 L4 and l3	0	L5
L4 6427118.pn. or 6434482.pn.	2	L4
L3 L2 and ((point-of-interest) or ("point of interest"))	63	L3
L2 gps or (global adj position$ adj system$)	21998	L2
L1 vehicle and (navigation with system$)	6672	L1

END OF SEARCH HISTORY

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L4: Entry 1 of 2   File: USPT   Aug 13, 2002

US-PAT-NO: 6434482
DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshida; Naoya	Tokyo			JP
Takahashi; Shigehito	Yokohama			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Alpine Electronics, Inc.	Tokyo			JP	03

APPL-NO: 09/ 599237   [PALM]
DATE FILED: June 22, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-196868	July 12, 1999

INT-CL: [07] G01 C 21/00, G08 G 1/096

US-CL-ISSUED: 701/209, 701/201, 701/211, 340/995
US-CL-CURRENT: 701/209; 340/995.24, 701/201, 701/211

FIELD-OF-SEARCH: 701/200, 701/211, 701/201, 701/209, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| Search Selected | Search ALL | Clear |

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
[ ]	4761742	August 1988	Hanabusa et al.	
[ ]	5229947	July 1993	Ross et al.	364/443
[ ]	5515283	May 1996	Desai et al.	364/443
[ ]	5543789	August 1996	Behr et al.	340/995
[ ]	5654892	August 1997	Fujii et al.	364/449.5

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☐	5767795	June 1998	Schaphorst	340/988
☐	5790973	August 1998	Blaker et al.	701/123
☐	5802492	September 1998	DeLorme et al.	701/200
☐	6014090	January 2000	Rosen et al.	340/905
☐	6175800	January 2001	Mori et al.	701/202

ART-UNIT: 3661

PRIMARY-EXAMINER: Zanelli; Michael J.

ATTY-AGENT-FIRM: Brinks Hofer Gilson & Lione

ABSTRACT:

While the vehicle is traveling on a highway, the controller searches facilities
located within a specific distance from the next exit of the highway, on the basis
of the map data contained in the CD-ROM and the current vehicle position measured
by a position measuring device, and provides the result to a display controller.
The display controller superimposes on a displayed map image on a monitor the
searched facilities as well as the distances from the relevant highway exit. The
controller also searches a guide route to a facility selected by the user, stores
it in a route guide memory, and executes route guidance to the facility on the
basis of the guide route stored in the guide route memory. Thus, the invention
provides a navigation system whereby the user can find facilities located within a
specific distance from the next exit of the highway.

18 Claims, 7 Drawing figures

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L7: Entry 1 of 1   File: USPT   Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1
TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

1. A Point of _Interest_ (POI) display method that associates with a highway exit a
list of POIs located around the exit, wherein, while a vehicle is traveling the
highway, the POIs associated with the next highway exit are displayed to be
searched from the POI list and the name of the highway exit is displayed.

9. A Point of _Interest_ (POI) display method for a navigation system that executes
guidance to a destination by an arrow display without displaying a map, the POI
display method comprising the steps of: searching a guide route to the destination,
searching a POI located along the guide route, within a specific distance from a
vehicle position, and displaying the searched POI together with the distance from
the vehicle position.

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L8: Entry 1 of 1   File: USPT   Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1
TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

1. A Point of Interest (POI) display method that associates with a highway exit a list of POIs located around the exit, wherein, while a vehicle is traveling the highway, the POIs associated with the next highway exit are displayed to be searched from the POI list and the name of the highway exit is displayed.

2. A POI display method as claimed in claim 1, wherein the names or marks of the POIs located around the highway exit are displayed together with the distances from the exit.

3. A POI display method as claimed in claim 1, wherein an arrow indicating the direction of the next highway exit is displayed.

4. A POI display method as claimed in claim 1, wherein a desired POI is selected from the displayed POIs, and a guide route from the highway exit to the selected POI is searched and displayed.

5. A POI display method as claimed in claim 1, wherein, whether the vehicle has passed the highway exit or not is judged, and when the vehicle is judged to have passed the exit, a POI associated with the next highway exit is displayed.

6. A POI display method as claimed in claim 1, wherein information of the POIs located around the highway exit is received from outside the vehicle.

7. A POI display method as claimed in claim 1, wherein the list of the POIs located around the highway exit is divided into the POIs associated with the exit from the highway in a first direction of travel and the POIs associated with the exit from the highway in a second direction of travel.

8. A POI display method as claimed in claim 7, wherein a travel direction of the vehicle is detected, and a POI associated with the travel direction is displayed.

9. A Point of Interest (POI) display method for a navigation system that executes guidance to a destination by an arrow display without displaying a map, the POI display method comprising the steps of: searching a guide route to the destination, searching a POI located along the guide route, within a specific distance from a vehicle position, and displaying the searched POI together with the distance from the vehicle position.

10. A POI display method as claimed in claim 9, wherein the POI is displayed by name or a mark.

11. A POI display method as claimed in claim 9, wherein a desired POI is selected from the POIs displayed on a display screen, and route guidance is executed which

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regards the selected POI as a stopping point along the way.

12. A POI display method as claimed in claim 9, wherein the POI information is received from outside the vehicle.

14. An on-vehicle navigation system as claimed in claim 13, wherein the map data storage means stores a list of the facilities located around the highway exit and divided into the POIs associated with the exit from the highway in a first direction of travel and the POIs associated with the exit from the highway in a second direction of travel.

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L4: Entry 2 of 2   File: USPT   Jul 30, 2002

US-PAT-NO: 6427118
DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded
thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzuki; Takumi	Shizuoka			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Yazaki Corporation	Tokyo			JP	03

APPL-NO: 09/ 689898   [PALM]
DATE FILED: October 13, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-294377	October 15, 1999

INT-CL: [07] G01 C 21/00, G01 S 1/02, G01 S 5/02, G06 G 7/78

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25,
701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33
US-CL-CURRENT: 701/209; 340/988, 340/989, 340/990, 340/995.24, 342/357.13, 342/457,
345/33, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207,
701/208, 701/210, 701/211, 701/212, 701/213, 701/214, 701/215, 701/220, 701/23,
701/24, 701/25, 701/26, 73/178R

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989,
340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected] [Search ALL] [Clear]

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5067082	November 1991	Nimura et al.	364/449

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☐	5784059	July 1998	Morimoto et al.	345/353
☐	6006161	December 1999	Katou	701/212
☐	6035235	March 2000	Hayashi et al.	701/211
☐	6266613	July 2001	Nimura et al.	701/210

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ASSISTANT-EXAMINER: Mancho; Ronnie

ATTY-AGENT-FIRM: Morgan, Lewis & Bockius LLP

ABSTRACT:

A vehicle-mounted navigation system (1) including: a facility information acquisition device (21) which acquires facility information, wherein the facility information is position information pertaining to the facilities located around the route; a facility selection device (22) which selects, from among the facilities recorded in the facility information, upon consideration of the vehicle's travel direction, facilities whose landmarks are to be displayed on a display section (4); and a landmark display device which displays, on the display section (4), landmarks of the facilities selected by the facility selection device (22) on the basis of the facility information.

10 Claims, 5 Drawing figures

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Hit List

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |

| Generate OACS |

Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1.   Document ID: US 6434482 B1

L14: Entry 1 of 21   File: USPT   Aug 13, 2002

US-PAT-NO: 6434482
DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 2.   Document ID: US 6421606 B1

L14: Entry 2 of 21   File: USPT   Jul 16, 2002

US-PAT-NO: 6421606
DOCUMENT-IDENTIFIER: US 6421606 B1
** See image for Certificate of Correction **

TITLE: Route guiding apparatus and medium

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 3.   Document ID: US 6418374 B2

L14: Entry 3 of 21   File: USPT   Jul 9, 2002

US-PAT-NO: 6418374
DOCUMENT-IDENTIFIER: US 6418374 B2

TITLE: Navigation device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 4.   Document ID: US 6401034 B1

L14: Entry 4 of 21   File: USPT   Jun 4, 2002

US-PAT-NO: 6401034
DOCUMENT-IDENTIFIER: US 6401034 B1

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TITLE: Method and system for finding intermediate destinations with a <u>navigation</u> system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

   □ 5.   Document ID: US 6249740 B1

    L14: Entry 5 of 21   File: USPT   Jun 19, 2001

US-PAT-NO: 6249740
DOCUMENT-IDENTIFIER: US 6249740 B1

TITLE: Communications <u>navigation</u> system, and <u>navigation</u> base apparatus and <u>vehicle</u> <u>navigation</u> apparatus both used in the <u>navigation</u> system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

   □ 6.   Document ID: US 6212472 B1

    L14: Entry 6 of 21   File: USPT   Apr 3, 2001

US-PAT-NO: 6212472
DOCUMENT-IDENTIFIER: US 6212472 B1

TITLE: Method and apparatus for displaying current <u>vehicle</u> position

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

   □ 7.   Document ID: US 6205398 B1

    L14: Entry 7 of 21   File: USPT   Mar 20, 2001

US-PAT-NO: 6205398
DOCUMENT-IDENTIFIER: US 6205398 B1
** See image for <u>Certificate of Correction</u> **

TITLE: Apparatus and method for <u>navigation</u> and medium for providing the method

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

   □ 8.   Document ID: US 6151552 A

    L14: Entry 8 of 21   File: USPT   Nov 21, 2000

US-PAT-NO: 6151552
DOCUMENT-IDENTIFIER: US 6151552 A

TITLE: Route guidance apparatus

h   e b   b g e e e f   e   c   ef   b   e

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 9. Document ID: US 6125323 A

L14: Entry 9 of 21   File: USPT   Sep 26, 2000

US-PAT-NO: 6125323
DOCUMENT-IDENTIFIER: US 6125323 A

TITLE: Device for processing road data or intersection data

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 10. Document ID: US 6098015 A

L14: Entry 10 of 21   File: USPT   Aug 1, 2000

US-PAT-NO: 6098015
DOCUMENT-IDENTIFIER: US 6098015 A

TITLE: Navigation system for vehicles and storage medium

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L13 and ((calculat$ or determin$) with distance)	21

Display Format: TI | Change Format

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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11.   Document ID: US 6084543 A

L14: Entry 11 of 21   File: USPT   Jul 4, 2000

US-PAT-NO: 6084543
DOCUMENT-IDENTIFIER: US 6084543 A

TITLE: Route guide apparatus

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 12.   Document ID: US 6070122 A

L14: Entry 12 of 21   File: USPT   May 30, 2000

US-PAT-NO: 6070122
DOCUMENT-IDENTIFIER: US 6070122 A
** See image for **Certificate of Correction** **

TITLE: Vehicle navigation with priority target display

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 13.   Document ID: US 6064941 A

L14: Entry 13 of 21   File: USPT   May 16, 2000

US-PAT-NO: 6064941
DOCUMENT-IDENTIFIER: US 6064941 A

TITLE: Vehicle navigation apparatus and storage medium

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 14.   Document ID: US 5991689 A

L14: Entry 14 of 21   File: USPT   Nov 23, 1999

US-PAT-NO: 5991689
DOCUMENT-IDENTIFIER: US 5991689 A

h   e b   b cg b   cc   e

TITLE: <u>Navigation</u> system with switching between an ordinary road preferential mode and a tall road preferential mode

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 15. Document ID: US 5978733 A

L14: Entry 15 of 21   File: USPT   Nov 2, 1999

US-PAT-NO: 5978733
DOCUMENT-IDENTIFIER: US 5978733 A

TITLE: Route <u>search</u> apparatus

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 16. Document ID: US 5944768 A

L14: Entry 16 of 21   File: USPT   Aug 31, 1999

US-PAT-NO: 5944768
DOCUMENT-IDENTIFIER: US 5944768 A
** See image for **Certificate of Correction** **

TITLE: <u>Navigation</u> system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 17. Document ID: US 5928308 A

L14: Entry 17 of 21   File: USPT   Jul 27, 1999

US-PAT-NO: 5928308
DOCUMENT-IDENTIFIER: US 5928308 A
** See image for **Certificate of Correction** **

TITLE: <u>Navigation</u> system for <u>vehicles</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 18. Document ID: US 5787383 A

L14: Entry 18 of 21   File: USPT   Jul 28, 1998

US-PAT-NO: 5787383
DOCUMENT-IDENTIFIER: US 5787383 A

TITLE: <u>Vehicle navigation</u> apparatus with route modification by setting detour point

h   e b   b cg b   cc   e

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 19. Document ID: US 5612881 A

L14: Entry 19 of 21   File: USPT   Mar 18, 1997

US-PAT-NO: 5612881
DOCUMENT-IDENTIFIER: US 5612881 A

TITLE: Map display system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 20. Document ID: US 5452212 A

L14: Entry 20 of 21   File: USPT   Sep 19, 1995

US-PAT-NO: 5452212
DOCUMENT-IDENTIFIER: US 5452212 A

TITLE: Navigation system for vehicle

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L13 and ((calculat$ or determin$) with distance)	21

Display Format: TI   Change Format

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Hit List

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |

| Generate OACS |

Search Results - Record(s) 21 through 21 of 21 returned.

☐ 21. Document ID: US 4992947 A

L14: Entry 21 of 21   File: USPT   Feb 12, 1991

US-PAT-NO: 4992947
DOCUMENT-IDENTIFIER: US 4992947 A

TITLE: Vehicular navigation apparatus with help function

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L13 and ((calculat$ or determin$) with distance)	21

Display Format: TI | Change Format |

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2/7/9   (Item 1 from file: 81)
DIALOG(R)File 81:MIRA - Motor Industry Research
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42057
 A Profile of Drivers' Map-Reading Abilities
STREETER LA; et al
Corporate Source: Bell Commun Res
Human Factors, Apr 86
April 1, 1986
Page   : 223
Collation   : (17 p, 11 fig, 15 ref)

Document Type: JOURNAL Language: ENGLISH
Record Type: ABSTRACT
Supplier Record Type: AA

To create better aids for everyday surface navigation, people's
navigational preferences, habits, experiences, abilities, and
route-selection strategies were examined. Self-described good navigators
like and use maps, and they differentially value landmarks, such as rivers,
railways and houses, whereas poor navigators tend not to use maps, prefer
verbal instructions, and tend to rate all landmarks as equally valuable for
route finding.
Routes selected by people with varying degrees of familiarity with an area
were compared with routes generated by standard graph-search procedures. A
shorest-path, breadth-first route characterised half of the "expert"
routes, whereas none of the graph-search procedures matched "intermediate"
and "novice" routes. A good predictor of whether people chose a particular
road was whether the sum of A + B + C (where A equals the straight-line
distance from the start to the road, B equals the distance travelled on the
road, and C equals the straight-line distance from the departure point on
the road to the destination) did not exceed the straight-line distance
between start and destination by more than about 20%. (Auth)
?

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L6: Entry 2 of 2   File: USPT   Jul 30, 2002

US-PAT-NO: 6427118
DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded
thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INT-CL: [07] G01 C 21/00, G01 S 1/02, G01 S 5/02, G06 G 7/78

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25,
701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33
US-CL-CURRENT: 701/209; 340/988, 340/989, 340/990, 340/995.24, 342/357.13, 342/457,
345/33, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207,
701/208, 701/210, 701/211, 701/212, 701/213, 701/214, 701/215, 701/220, 701/23,
701/24, 701/25, 701/26, 73/178R

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989,
340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33